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Information processing system for business organization, has communication command analyzing unit executing authentication between reader/writer and integrated circuit card using access key information

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9 patents, 30 countries

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1117077	A2	20010718	EP 2001100277	A	20010103	200161 B
JP 2001195548	A	20010719	JP 20005910	A	20000107	200161 E
US 20010029579	A1	20011011	US 2001754652	A	20010104	200162 E
CN 1304101	A	20010718	CN 2001103491	A	20010107	200163 E
SG 108236	A1	20050128	SG 200153	A	20010104	200519 E
EP 1117077	B1	20060510	EP 2001100277	A	20010103	200634 E
DE 60119400	E	20060614	DE 60119400	A	20010103	200642 E
			EP 2001100277	A	20010103	
CN 1197022	C	20050413	CN 2001103491	A	20010107	200652 E
US 7150039	B2	20061212	US 2001754652	A	20010104	200701 E

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Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
EP 1117077	A2	EN	23	17	
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2001195548	A	JA	14		
SG 108236	A1	EN			
EP 1117077	B1	EN			
Regional Designated States,Original: DE FR GB					
DE 60119400	E	DE			Application EP 2001100277
					Based on OPI patent EP 1117077

Alerting Abstract EP A2

NOVELTY - An issuer acts as management sector to create issuer key information. A reader/writer containing file key information is possessed by each business organization (4A) for accessing the IC card (3). An access key synthesizing unit (14) creates access key information based on issuer key information and file key information. A communication command analyzing unit (13) executes authentication between reader/writer and IC card using access key information.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1.Access apparatus;

2.Portable electronic device;

3.Memory space usage method

USE - For enabling an IC card to be used by multiple business organizations.

ADVANTAGE - As issuer key change information is created by encrypting the new issuer key, with the old issuer key and the issuer key held in the IC card is updated according to issuer key change information, thus improving system security. Memory space allocated to certain business organization can be prevented from being accessed by other business organization.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of IC card system.

3 IC card

4A Business organization

13 Communication command analyzing unit

14 Access key synthesizing unit

Original Publication Data by Authority

Original Abstracts:

The invention provides an information processing system, a portable electronic device, an access apparatus for the portable electronic device, as well as a method of using a memory space. When applied to, for example, a system employing non-contact IC cards, the invention enables one IC card to be used for a plurality of business organizations in common. To this end, an access key is created based on issuer key information managed by a management sector and file key information specific to each business organization, and the created access key is assigned to the business organization. A portable electronic device is then accessed using the access key.

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div xhtml:class="paragraph" The invention provides an information processing system, a portable electronic device, an access apparatus for the portable electronic device, as well as a method of using a memory space. When applied to, for example, a system employing non-contact IC cards, the invention enables one IC card to be used for a plurality of business organizations in common. To this end, an access key is created based on issuer key information managed by a management sector and file key information specific to each business organization, and the created access key is signed to the business organization. A portable electronic device is then accessed using the access key. Basic Derwent Week: 200161